## WHAT IS CLAIMED IS:

- 1. A method for detecting the presence in a subject of a polymorphism linked to a gene associated with familial dysautonomia, said method comprising detecting a disruptive mutation in a gene of said subject encoding the IkB kinase-complex-associated protein.
- 2. The method according to claim 1, which comprises detecting a disruptive mutation in the gene encoding the IkB kinase-complex-associated protein which is present on chromosome 9q31.
- 3. The method according to claim 2, which comprises detecting a T → C change in position 6 of the donor splice site of intron 20 of the gene encoding the IκB kinase-complex-associated protein which is present on chromosome 9q31.
- 4. The method according to claim 2, which comprises detecting a G → C transversion of nucleotide 2390 in exon 19 of the gene encoding the IκB kinase-complex-associated protein which is present on chromosome 9q31.
- 5. The method according to claim 3 or 4, which comprises detecting said  $T \rightarrow C$

change and/or said  $G \rightarrow C$  transversion by single-strand conformational polymorphism (SSCP) analysis.

- 6. The method according to claim 5, wherein said SSCP analysis is carried out on a nucleic acid sequence amplified by polymerase chain reaction (PCR).
- 7. The method according to claim 6, wherein said nucleic acid sequence is amplified by PCR using one or more oligonucleotide primers selected from the group consisting of:
  - a) GAGAACAACAAGATTCTGC (SEQ ID NO: 6);
  - b) AGTCGCAAACAGTACAATGG (SEQ ID NO: 7);
  - c) GCAGTTAATGGAGAGTGGCT (SEQ ID NO: 8); and
  - d) ATGCTTGGTACTTGGCTG (SEQ ID NO: 9).
- 8. An oligonucleotide primer selected from the group consisting of:
  - a) GAGAACAACAAGATTCTGC (SEQ ID NO: 6);
  - b) AGTCGCAAACAGTACAATGG (SEQ ID NO: 7);
  - c) GCAGTTAATGGAGAGTGGCT (SEQ ID NO: 8); and
  - d) ATGCTTGGTACTTGGCTG (SEQ ID NO: 9).